

Study Number: C15011B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

R02: Reproductive Performance Summary

Test Compound: 2-Ethyltoluene
CAS Number: 611-14-3

Date Report Requested: 04/12/2021
Time Report Requested: 15:37:20
Lab: Battelle

Study Number: C15011B-01
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.2.0

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F0 Female

Treatment Groups (ppm)

	0	150	300	600	900	1200
No. Females Mated	12	12	12	12	12	12
No. Females Pregnant	12	12	11	12	12	12
No. Pregnant Females Removed Prior to Littering	0	0	0	0	4	12
No. Females Littering	12	12	11	11	6	
Percent of Pregnant Females/Mated	100.0	100.0	91.7	100.0	100.0	100.0
Percent of Littered Females/Mated	100.0 *	100.0	91.7	91.7	75.0	
Percent of Littered Females/Pregnant	100.0 *	100.0	100.0	91.7	75.0	
Gestational Length	21.9 ± 0.1 (12) **	22.2 ± 0.1 (12)	22.0 ± 0.0 (11)	22.5 ± 0.2 (11) **	22.7 ± 0.2 (6) **	

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LEGEND

F0 time mated females were vendor provided so endpoints involving number of females paired, and pre-coital interval were not calculated. Pregnancy was defined as evidence of implantation or littering. Vendor's time of confirmation of mating was utilized for calculation of F0 gestational length.

When reported, pre-coital interval in days is calculated for sperm positive females.

Gestation length in days calculated for sperm positive females that delivered a litter.

Animals that died or were removed from study between mating and littering were excluded from the littered/paired, littered/mated, and littered/pregnant endpoints, resulting in percent values that may not reflect the tallies of females paired, mated, or pregnant.

Percent of Littered Females / Mated = $100 \times (\text{No. Females Littered} / (\text{No. Females Mated} - \text{No. Pregnant Females Removed Prior to Littering}))$

Percent of Littered Females / Pregnant = $100 \times (\text{No. Females Littered} / (\text{No. Females Pregnant} - \text{No. Pregnant Females Removed Prior to Littering}))$

Statistical analysis performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) 2-sided tests for Percent of Mated Females/Paired; Percent of Littered Females/Paired; Percent of Pregnant Females/Mated; Percent of Littered Females/Mated; Percent of Littered Females/Pregnant endpoints if present.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests for the Pre-coital Interval and Gestational Length endpoints if present.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

All F0 dams in the high dose group (1200 mg/kg/day, F0-6) died prior to littering due to high-dose lethality.

**** END OF REPORT ****